

## The Annual Adjustment Process

Department of Local Government Finance

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## Why are assessments adjusted through trending?

- Indiana Constitution requires fair and equitable property tax assessments.
- 2002 Indiana Supreme Court ruled that current method was unconstitutional and ordered different standard be used.
- General Assembly ordered property be assessed using Market Value-In-Use



### Reassessment (IC 6-1.1-4-4(b))

- Assessors physically inspect each property to ensure that records are correct
- Inspection accomplishes the gathering of data appropriate to value the property
  - Does this property still have a free-standing garage and an in-ground pool?
  - Is the building on this property still 1,200 square feet or has it increased/decreased in size?



#### Trending (i.e. annual adjustment)

- Property values are adjusted (the adjustment can be positive or negative) on an annual basis to bring them closer to market value-in-use. The assessing official uses sales of properties in a neighborhood, area, or class of property from the previous two (2) years to determine the adjustment factor.
- In the past, assessed values were adjusted only after a reassessment, which came as far apart as 10 years. Trending now occurs every year.



## Reassessment vs. Trending

- Trending was implemented to supplement, not replace, the reassessments, which current law calls for every 5 years.
- Without trending, reassessments resulted in dramatic shifts in assessed values because the values of properties were typically only adjusted during a reassessment year.
- Trending requires the assessor to annually adjust the value of the property based on market value-in-use, which is primarily determined from sales.



#### **History of Property Valuation Changes**

		Property Sales													
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Tax Year															
2009 Pay 2010 (4)													2009 Pa	y 2010	
2008 Pay 2009												2008 Pa	y 2009		
2007 Pay 2008											2007 Pa	ay 2008			
2006 Pay 2007 (3)										2006 Pay	2007 (3)				
2005 Pay 2006						No Sa	des froi	n these	vears						
2004 Pay 2005								ge to 20	-						
2003 Pay 2004							2002 V	Values							
2002 Pay 2003 (2)				2002 Pay	2003 (2)										
2001 Pay 2002															
2000 Pay 2001			t Value												
1999 Pay 2000			apply;												
1998 Pay 1999			inge in s until												
1997 Pay 1998			002												
1996 Pay 1997															
1995 Pay 1996 (1)	1995 Pay 1996 (1)														

#### NOTES:

(1) Reassessment

(2) First use of Market Value

(3) First Annual Trending

(4) DLGF to allow the use of one year of sales only



- Each year, the assessed value is multiplied by an adjustment factor.
- Values can go up. . .

2008 assessed value: \$100,000

Neighborhood factor: x = 1.1

2009 assessed value: \$110,000



- Each year, the assessed value is multiplied by an adjustment factor.
- Values can go up. . .

...or down.

2008 assessed value: \$100,000

Neighborhood factor: x = 0.9

2009 assessed value: \$90,000



Whether values go up or down depends on recent sales prices:











## The Adjustment Factor

- All properties in a county are divided into distinct neighborhoods.
- A neighborhood contains similar properties:
  - Property class
  - Construction type
  - Condition
- The sold properties in your neighborhood are what determine the adjustment factor that is applied to your property.



Each year, the assessed value is multiplied by an adjustment factor.

2008 assessed value: \$100,000

Neighborhood factor: x = 1.1

2009 assessed value: \$110,000



## The Adjustment Factor

 To calculate the adjustment factor, the assessor calculates the sales ratio for all properties that sold in the neighborhood.



Assessed Value: \$90,000

• Sale Price: \$100,000

• Ratio: 0.9



## **Examples of Sales Ratios**

Assessed Value	Sales Price	Sales Ratio
\$89,000	\$103,000	0.86
\$84,000	\$93,000	0.90
\$100,000	\$98,000	1.02
\$94,000	\$88,000	1.06
\$92,000	\$81,000	1.13



## **Examples of Sales Ratios**

Assessed Value	Sales Price	Sales Ratio
\$89,000	\$103,000	0.86
\$84,000	\$93,000	0.90
\$100,000	\$98,000	1.02
\$94,000	\$88,000	1.06
\$92,000	\$81,000	1.13



## The Adjustment Factor

In this example, the adjustment factor is:

■ The assessed value of **ALL** properties in the neighborhood is multiplied by 0.98 to arrive at the new assessed value.



## **Examples of Sales Ratios**

Assessed Value	Sales Price	Sales Ratio
\$89,000	\$103,000	0.86
\$84,000	\$93,000	0.90
\$100,000	\$98,000	1.02
\$94,000	\$88,000	1.06
\$92,000	\$81,000	1.13



- A comparison between sales and assessed values in the county to ensure that market values are being used to determine assessed values.
- Determines if assessments are accurate and equitable (mass appraisal basis).
- Standards can be found in 50 IAC 21.



#### A ratio study answers two questions:

1. Are all properties assessed at market value-in-use?

Assessment **LEVEL** 

2. Are all properties assessed using the same standard?

Assessment UNIFORMITY



## **Ratio Study Example**

Parcel Number	Sale Date	Sale Price	Assessed	Sales Ratio
70110515101900	09-Nov-07	\$38,000	\$37,200	0.98
70073210300100	09-Jul-08	\$250,000	\$242,200	0.97
70073235201200	02-Jun-08	\$20,000	\$20,600	1.03
70073235600100	02-Jul-07	\$350,000	\$353,700	0.90
70072935101000	02-Jul-07	\$200,000	\$206,400	1.03
70072840000300	17-Aug-07	\$54,748	\$59,100	1.08
70110515100100	09-Aug-07	\$30,000	\$34,000	1.13



### **Assessment Level**

- Are properties assessed at market value-in-use?
- Look at the median ratio:

■ Between 0.90 and 1.10: YES!

Otherwise:
NO!



## **Assessment Uniformity**

- Our target is the median ratio.
- The coefficient of dispersion tells us how close all the other ratios are to the median ratio.
  - The lower it is, the better.



### **Take Home Points**

- In most years, your property is trended, not reassessed.
- Your property is only compared to sold properties in the same neighborhood.
- The median ratio of properties in your neighborhood determines the adjustment factor for all properties, including yours.



## **Contact The Department**

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  - "Contact Us": www.in.gov/dlgf/2338.htm

## **Extra Slides**

## What is a Ratio?



- Actual:90
- Advertised: 100





0.90

100

## **The Sales Ratio**



- Assessed Value: \$90,000
- Sale Price: \$100,000
- Ratio:0.9

## **The Sales Ratio**

■ This is the Sales Ratio (or A/S Ratio):

**Assessed Value** 

Sales Price

## **Examples of Sales Ratios**

Assessed Value	Sales Price	Sales Ratio
\$89,000	\$103,000	0.86
\$84,000	\$93,000	0.90
\$100,000	\$98,000	1.02
\$94,000	\$88,000	1.06
\$92,000	\$81,000	1.13

## What is the Median?



The Median divides the road perfectly in half

## **The Median Ratio**

Assessed Value	Sales Price	A/S Ratio
\$89,000	\$103,000	0.86
\$84,000	\$93,000	0.90
\$100,000	\$98,000	₹1.02 ₹
\$94,000	\$88,000	1.06
\$92,000 The Median Ratio div	\$81,000 vides the column of	1.13 ratios perfectly in half

## What is Dispersion?





**Not Much Dispersion** 

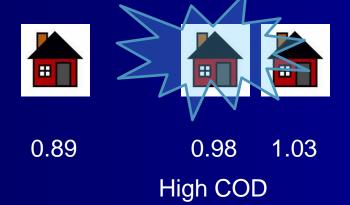
Lots of Dispersion

Dispersion is how close you are to your target!

# **Coefficient of Dispersion** (COD)



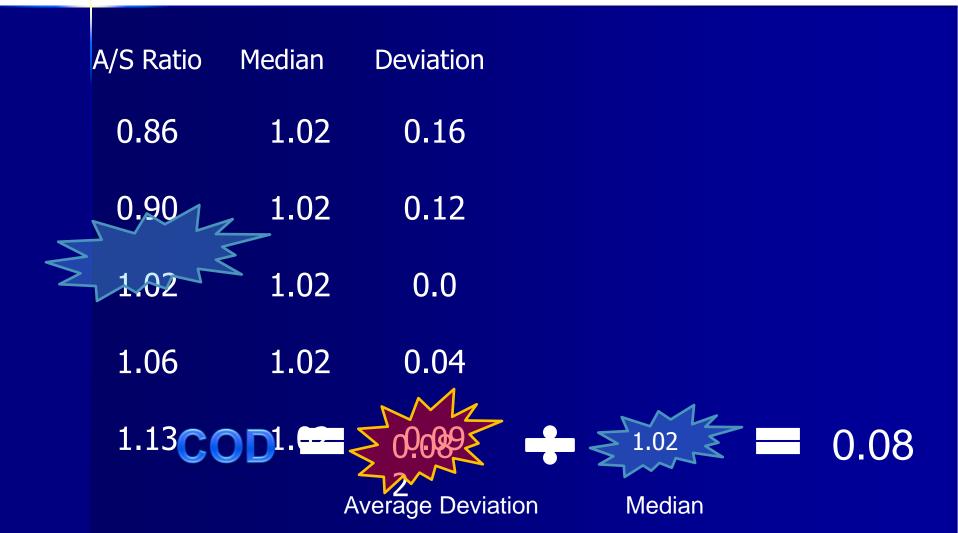






1.31

# Coefficient of Dispersion (COD)



## What is Equity?

- Simply put: Fairness
- Assessing all properties using the same standard.

## What is Equity?



**Umpire Favors** 



Umpire Doesn't Favor

NOT Equitable!

## **Two Types of Equity**

- Vertical Equity
  - High and low-value properties are assessed using the same standard.
- Horizontal Equity
  - Sold and unsold properties are assessed using the same standard.

# **Vertical Equity Violations**



House is underassessed



House is overassessed

NOT Equitable!

# **Vertical Equity Violations**



Yankee Fans Houses Under-assessed



Red Sox Fans Houses
Over-assessed

# **Vertical Equity Violations**



Expensive Houses: Underassessed



Inexpensive Houses: Over-assessed

# Price-Related Differential (PRD)

- The PRD is a number which tells you whether vertical equity is violated:
  - Between 0.98 and 1.03: OK!
  - Otherwise: NOT OK!
    - Less than 0.98: Expensive houses overassessed.
    - Greater than 1.03: Inexpensive houses overassessed.

A	ssessment	Sales Price	Ratio
	\$89,000	\$103,000	0.86
	\$84,000	\$93,000	0.90
	\$100,000	\$98,000	1.02
	\$94,000	\$88,000	1.06
	\$92,000	Avsagon Ratio =	Q.93

Step 1Calculate the Average Ratio

Assessment	Sales Price	Ratio	<ul> <li>Step 2 Sum the Assessed Value and Sales Price</li> </ul>
\$89,000	\$103,000	0.86	Columns
\$84,000	\$93,000	0.90	
\$100,000	\$98,000	1.02	
\$94,000	\$88,000	1.06	
\$439,000	\$485,000	1.13	

Assessment	Sales Price	Ratio
\$89,000	\$103,000	0.86
\$84,000	\$93,000	0.90
\$100,000	\$98,000	1.02
\$94,000	\$88,000	1.06
\$92,000 \$459,000	\$81,000 \$463,000	= <sup>1</sup> d.3 <sub>9</sub> 9

- Step 3 Divide
   the sum of
   Assessed Values
   by the sum of
   Sales Prices.
- The answer is the **Aggregate Ratio**.

Assessment	Sales Price	Ratio	<ul><li>Step 4 Divide the Average Ratio by the</li></ul>	
\$89,000	\$103,000	0.86	Aggregate	
\$84,000	\$93,000	0.90	Ratio.	
\$100,000	\$98,000	1.02	0.99	
\$94,000	\$88,000	1.06	0.99	
\$92,000	\$81,000	1.13		

# **Horizontal Equity Violations**

#### Sales Chasing

 Using the sale of a property to trigger a reappraisal of that property at or near the selling price (IAAO Standard on Ratio Studies, 2007).





# **Sales Chasing in Practice**

House 1





Assessment: \$100,000



Assessment: \$100,000

#### **Two Identical Houses**

House 1



Assessment: \$100,000

SOLD! For \$130,000

House 2



Assessment: \$100,000

Did NOT Sell

#### **Two Identical Houses**

House 1



Assessment: \$100,000

SOLD! For \$130,000

Re-assess: \$130,000

Pays more property taxes

House 2



Assessment: \$100,000

Did NOT Sell

Don't re-assess: \$100,000

Pays same property taxes

# Why Sales Chase?

- Sales chasing makes a ratio study look better than it is.
  - Properties appear to be assessed at market value in use.
  - Properties appear to be assessed using the same standard.
  - But they are NOT!